

YEHZIK, I.I.; KOVALEV, I.A.

Determining the heat capacity of benzene, paraxylene,
metaxylol and cyclohexane in a supercooled state. Khim. i
tekhn. topl. no.10:12-14 O '56. (MLRA 9:11)

(Heat capacity) (Hydrocarbons)

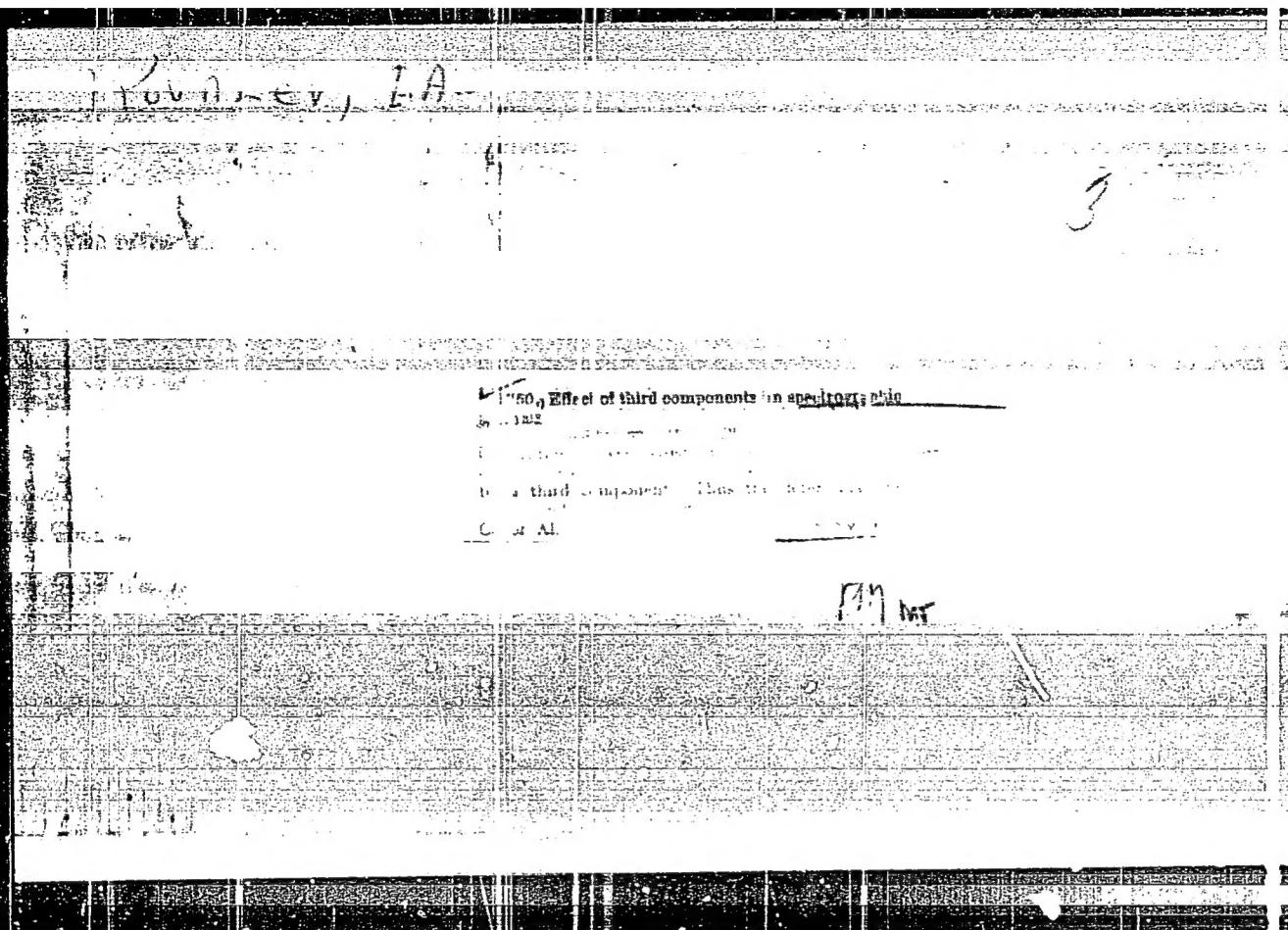
KOVALEV, I.A.

Method and theoretical principles of spectrum analysis based on
lines located in different regions of the spectrum. Zhur.anal.
khim. 11 no.2:123-128 Mr-Ap '56. (MLRA 9:8)

1. Khar'kovskiy filial Vsesoyuznogo nauchno-issledovatel'skogo i
konstruktorskogo instituta khimicheskogo mashinostroyeniya.
(Spectrum analysis)

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Kovalev, I.A.

AUTHORS: Yezhik, I.I., Kovalev, I.A. 32-11-32/60

TITLE: A Method of Determining Concentrations According to Spectral Lines Located in Different Domains of the Spectrum (Metodika opredeleniya kontsentratsii po spektral'nym liniyam, razlozhennym v raznykh oblastyakh spektra)

PERIODICAL: Zavodskaya Laboratoriya, 1957, Vol. 23, Nr 11, pp. 1355-1357 (USSR)

ABSTRACT: The equations described in the paper (1-3) serve the purpose of determining concentration according to analytical pairs of lines near the long-wave boundary. In the case of a large distance between these lines the factor of contrast (μ) must be taken into account. If a corresponding coefficient is introduced into the equation, the concentration of the component according to the lines located in different domains of the spectrum can be determined. In this case the equation is as follows:
$$S_2 - pS_1 = \frac{C}{2b} g^{\frac{C}{C}} + \frac{2}{g} g^a, \text{ where } p = r \cdot \frac{2}{1}$$
 is the correction coefficient. (The application of the formula is described). Accordingly, also the correction of the nonuniformity of the film is calculated, i.e. an average value of the differences of blackening according to the data of photometrization of all spectrograms made by

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32-11-32/60

A Method of Determining Concentrations According to Spectral Lines Located in
Different Domains of the Spectrum

the film is determined. (There follows an example of spectroanalysis). As a result a table of the determination of the sodium concentrations with respect to potassium and a table of the results of the alkali determination in the solutions given is mentioned. This method of analyzing the aqueous solution of the hydrochlorides of sodium and potassium salts makes it possible to determine the content of potassium of 0.03% g/ml and of sodium of 0.0005 g/ml. This method can also be applied for the analysis according to the method of combined light dispersion as also in molecular spectroscopy. There are 1 figure, 2 tables, and 3 references, 2 of which are Slavic.

ASSOCIATION: Khar'kov Institute for Building Engineering (Khar'kovskiy inzhenerno-stroitel'skiy institut)

AVAILABLE: Library of Congress

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BORISENKO, Sergey Grigor'yevich; TARASOV, Leonid Yakovlevich;
KOVALEV, Igor' Antoninovich; PROTOPOPOV, Sergey Filippovich;
DZHIMSHIELEYSHVILI, Sh.P., otv. red.; YEROKHIN, G.M., red.
i:d-va; OVSEYENKO, V.G., tekhn.red.

[Raise work] Prokhodka vosstaiushchikh. Moskva, Gos-
gortekhizdat, 1962. 271 p.
(Mining engineering) (MIRA 15:11)

MYASNIKOV, Konstantin Viktorovich; RUDENKO, Vasiliy Vladimirovich;
BURTSEV, L.I., kand. tekhn. nauk, retsenzent; KOVALEV, I.A.,
kand. tekhn. nauk, otv. red.

[Using hardening fillers during the mining of mineral deposits]
Применение твердеющих заполнителей при разработке рудных ме-
сторождений. Москва, Изд-во "Недра," 1964. 121 p.
(MIRA 17:4)

FUGZAK, Mark Davydovich; BROMNIKOV, D.M., doktor tekhn. nauk,
retcenzent; KOVALEV, I.A., kand. tekhn.nauk, otdv. red.;
SMIRENSKIY, M.M., red.

[Practice of single-stage mining of thick ore deposits
with large-scale breaking down] Opyt odnostadiinoi raz-
rabotki moshchnykh rudnykh mestorozhdenii s massovoi ot-
boikoi. Moskva, Izd-vo "Nedra," 1964. 130 p.

(MIRA 17:7)

LECHENKO, I.A., prof., red.; SHELEST, L.A., kand. tekhn. nauk,
red.; BUNIN, A.I., retsenzent; BURSHTEYN, P.S.,
retsenzent; KAPITANOV, T.V., retsenzent; KUZ'MIN, A.V.,
retsenzent; TARASOV, L.Ya., otv. red.; KOVALEV, I.A.,
otv. red.

[Development of mineral resources in Eastern Siberia] Raz-
rabitka mestorozhdenii poleznykh iskopаемых Vostochnoi
Sibiri. Moskva, Nedra, 1964. 382 p. (NIRA 17:12)

BORISOV, Sergey Sergeyevich; GORNCHOY, Boris Aleksandrovich;
KLOKOV, Mikhail Pavlovich; GELYUTA, Ye.Z., dote. kan.
tekhn. nauk retsenzent; KOVALEV, I.A., otv. red.

[Mining] Gornoe delo. Mcskva, Nedra, 1964. 426 p.
(MIRA 18:3)

GELYUTA, Yevgeniy Zakharevich, prepod.; NURMUKHAMEDOV, Yunus
Kaderbayevich, prepod. Prinimal uchastiye KOVALEV, I.A.,
dots.; RODIONOV, L.Ye., dots.

[Mining engineering] Gornoе delo. Moskva, Nedra, 1965.
590 p. (MIRA 18:9)

1. Vsesoyuznyy zaochnyy politekhnicheskiy institut.

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 ACC NR: AR6016617

SOURCE CODE: UR/0044/65/000/012/B104/E105

AUTHOR: Kovalev, I. A.

TITLE: Approximate method for solving a certain first order ordinary differential equation '6

SOURCE: Ref. zh. Matematika, Abs. 12B554

REF SOURCE: Tr. Khar'kovsk. s.-kh. in-ta, v. 46(83), 1965, 105-113

TOPIC TAGS: first order differential equation, ordinary differential equation, approximation method

ABSTRACT: It is proved that the equation

$$y' + \sum_{k=0}^{n-1} X_k(x) y^k = 0 \quad (1)$$

can be expressed in terms of the determinant

$$\Delta(y) = \begin{vmatrix} y^0 & y^1 & y^2 & \dots & y^{n-1} \\ y'_0 & y'_1 & y'_2 & \dots & y'^{n-1} \\ \vdots & \vdots & \vdots & \ddots & \vdots \\ y_n^0 & y_n^1 & y_n^2 & \dots & y_n^{n-1} \end{vmatrix} \quad (2)$$

where y_1, y_2, \dots, y_n are different particular solutions of equation (1) which the author calls determining functions. Assuming that the system of determining functions is known, one can find an approximate solution of equation (1) by constructing a sequence of functions $\{Y_i\}$ for which $|\Delta(Y_i(x))| > |\Delta(Y_{i+1}(x))| > \dots$ on some collection of

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UDC: 518.517.91/.94

KOVALEV, I.A.

Spectral method of determining silicon traces in cesium iodide.
Zav. lab. 30 no. 64/705 *64 (MIRA 1718)

1. Khar'kovskiy sel'skokhozyaystvennyy institut imeni V.V.
Dokuchayeva.

PANIN, Ivan Mikhaylovich; KOVALEV, Igor' Antoninovich; POPOV, G.N.,
prof., doktor tekhn. nauk, retsenzent; CHEREMUSHENTSEV,
I.A., prof., doktor tekhn. nauk, retsenzent; LOBANOV, D.P.,
dots., kand. tekhn. nauk, retsenzent; STEBAKOV, B.A., gorn.
inzh., retsenzent; TARASOV, L.Ya., prof., gornyy inzh.,
otv. red.

[Problems on the underground mining of ore deposits] Zadach-
nik po podzemnoi razrabotke rudnykh mestorozhdenii. Moskva,
(MIRA 18:2)
Nedra, 1964. 211 p.

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KOVACS, G.
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KOVALEV, I.A.